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Titolo	Image, video & 3D data registration : medical, satellite and video processing applications with quality metrics / / Vasileios Argyriou [and three others]
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Soggetti	Image registration Three-dimensional imaging
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	""Cover""; ""Title Page""; ""Copyright""; ""Contents""; ""Preface""; ""Acknowledgements""; ""Chapter 1 Introduction""; ""1.1 The History of Image Registration""; ""1.2 Definition of Registration""; ""1.3 What is Motion Estimation""; ""1.4 Video Quality Assessment""; ""1.5 Applications"" ""1.5.1 Video Processing""""1.5.2 Medical Applications"; ""1.5.3 Security Applications""; ""1.5.4 Military and Satellite Applications""; ""1.5.5 Reconstruction Applications""; ""1.6 Organization of the Book""; ""References""; ""Chapter 2 Registration for Video Coding""; ""2.1 Introduction"" ""2.2 Motion Estimation Technique""""2.2.1 Block-Based Motion Estimation Techniques""; ""2.3 Registration and Standards for Video Coding""; ""2.3.1 H.264"; ""2.3.2 H.265 ""; ""2.4 Evaluation Criteria""; ""2.4.1 Dataset ""; ""2.4.2 Motion-Compensated Prediction Error (MCPE) in dB"" ""2.4.3 Entropy in bpp""""2.4.4 Angular Error in Degrees""; ""2.5 Objective Quality Assessment""; ""2.5.1 Full-Reference Quality Assessment""; ""2.5.2 No-Reference and Reduced-Reference Quality

Metrics"; "2.5.3 Temporal Masking in Video Quality Assessment";  
"2.6 Conclusion"  
"2.7 Exercises""References"; "Chapter 3 Registration for Motion  
Estimation and Object Tracking"; "3.1 Introduction"; "3.1.1  
Mathematical Notation"; "3.2 Optical Flow"; "3.2.1 Horn-Schunk  
Method"; "3.2.2 Lukas-Kanade Method"  
"3.2.3 Applications of Optical Flow for Motion Estimation"

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**Sommario/riassunto**

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"This book is focused on providing algorithms and image and video  
techniques for registration and quality performance metrics. The  
authors provide various assessment metrics for measuring registration  
quality alongside analyses of registration techniques, introducing and  
explaining both familiar and state-of-the-art registration  
methodologies used in a variety of targeted applications"--

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